

Attorney Docket No.: 01CON355P-CON
Application Serial No.: 10/628,904In the Abstract:

- Please amend the abstract of the present application, as follows:

A method of speech encoding comprises generating a first synthesized speech signal from a first excitation signal, weighting the first synthesized speech signal using a first error weighting filter to generate a first weighted speech signal, generating a second synthesized speech signal from a second excitation signal, weighting the second synthesized speech signal using a second error weighting filter to generate a second weighted speech signal, and generating an error signal using the first weighted speech signal and the second weighted speech signal, wherein the first error weighting filter is different from the second error weighting filter. The method may further generate the error signal by weighting the speech signal using a third error weighting filter to generate a third weighted speech signal, and subtracting the first weighted speech signal and the second weighted speech signal from the third weighted speech signal to generate the error signal.
There is provided a speech encoder comprising a first weighting means for performing an error weighting on a speech input. The first weighting means is configured to reduce an error signal resulting from a difference between a first synthesized speech signal and the speech input. In addition, the speech encoder includes a means for generating the first synthesized speech signal from a first excitation signal, and a second weighting means for performing an error weighting on the first synthesized speech signal. The second weighting means is also configured to reduce the error signal resulting from the difference between the speech input and the first synthesized speech signal. There is also included a first difference means for taking the difference between the first synthesized speech signal and the speech input, where the first difference means is configured to produce a first weighted error signal. The speech encoder also includes a means for generating a second synthesized speech signal from a second excitation signal, and a third

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~~weighting means for performing an error weighting on the second synthesized speech signal. The third weighting means is configured to reduce a second error signal resulting from the difference between the first weighted error signal and the second synthesized speech signal. Then there is included a second difference means for taking the difference between the second synthesized speech signal and the first error signal, where the second difference means is configured to produce a second weighted error signal. Finally, there is included a feedback means for using the second weighted error signal to control the selection of the first excitation signal, and the selection of the second excitation signal.~~